

PRECIBALANCE



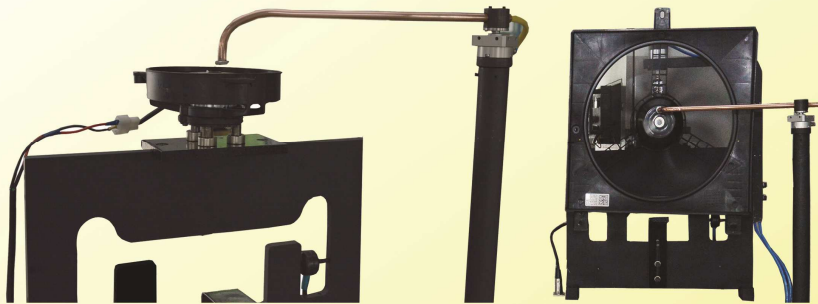
AUTOMOTIVE COOLING FAN ASSEMBLY BALANCING MACHINE



- Balancing Machine designed to balance whole fan assemblies quickly and efficiently.
- Easy to use. Simple to setup.
- Mitigate errors appearing from re-assembly by balancing the whole assembly in a single step.
- Balance at the service speed of the fan.
- Modular design to easily add fixtures for mounting a variety of fans.
- Quick clamp and declamp using pneumatics.
- Permanent storage of rotor setup to easily recall another model.
- Automatic cycle of Job clamp, Motor Start, Speed Sensor in measurement position, after a programmed delay speed sensor returns home, motor stopped, job unclamped for unloading.

MODULAR TOOLING ENABLES HANDLING WIDE RANGE OF COMPONENTS.

The modular design of the machine enables the user to change the tooling for components without disturbing the sensors.



Speed sensor in measuring position



Speed sensor in retracted position for easy job removal.

Technical Specifications ARFBM 1 - 20

Maximum diameter (including Shroud)	700 mm
Maximum weight of the component	1 Kg / 5 Kg / 10 Kg / 20 Kg
Maximum thickness of the component	150 mm / 250 mm
Balancing RPM	200 - 6000 rpm
RPM Sensor type	Optic Fibre type OMRON or equivalent
Measurement type	Piezo Electric Type Force Sensor - Hard Bearing
Operation Voltage for Electronics / Control	110 - 250V AC 50 / 60 Hz
Fan Power Supply*	Adjustable DC Supply
Cycle controller type	PLC
PLC pneumatic operation voltage	24VDC
PLC fan operation voltage*	10 - 15 V adjustable
PLC fan relay maximum current*	12 A continuous
Pneumatic operation pressure	4 bar nominal
Unbalance measurement time	12 - 15 seconds *Component acceleration, deceleration, setup, correction not included.
Balancing Quality	G2.5 as per ISO 1940 G1 on specific order
Minimum residual unbalance measurable	1 g - mm at 3000 rpm
Balancing type	Single plane / Two plane balancing
Rotation direction	CW / CCW both possible. Set as per job requirement during calibration
Component mounting	To be made as per component. Measurement base standard. Fixture to be mounted on measurement base.



Only component balancing machines are also available.

Models for 1 Kg, 3 Kg, 5 Kg, 10 Kg as standard execution either in single plane or two plane.

We make table top models as well models with support table.

* Please specify your needs. We shall manufacture to your specification.

The power supply specifications will be the major change among fans. Rest of the parts are common.

PRECIBALANCE Dynamic Balancing Machines (P) Ltd.

B-52, SIPCOT Industrial Park, Irrungattukottai (P.O) Sriperumpudur (T.K.), Pin : 602 117. India

Ph : +91 (0) 97890 55141 / 55144 / Fax : +91 44 4719 3089

E-mail : sales@precibalance.com

Website : <http://www.precibalance.com>

